

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Science: \_\_\_\_\_

## Plate Tectonics Jigsaw/Study Guide

Listen to the others in the jigsaw group to fill in information for the plate boundaries that you did not study in your specialist groups. Fill in this study guide.

### Convergent Boundaries:

#### Oceanic Crust vs. Oceanic Crust

What happens: **The older more dense plate subducts under the younger one.**

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Why does this happen? **When two oceanic plates collide they are not of the same age. One is older and so more dense and heavy than the other. The heavier plate sinks underneath the younger/lighter one.**

What physical feature(s) are formed? **Island arcs are landforms that are formed with this type of convergence. As the denser plate is plunged into the mantle it melts forming pools of magma that erupt into underwater volcanoes. Over time these volcanoes break the surface and form volcanic islands. As the plates continue to move the islands are formed in arcs.**

Example: **The islands of Japan are landforms of this type.**

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Draw a picture of this type of boundary in the box below.

